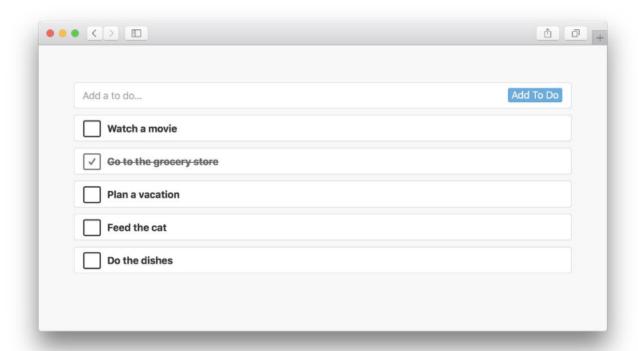
Take-Home Exercise: To-do List App



Objective

In this take-home project, you'll be building a simple to-do list app that fetches data from a server and saves data back to it.

- We recommend spending around 3 hours on this project.
- You're free to use Google, Stack Overflow, and other tools that you would normally use while programming.
- You're welcome to use any programming languages or open source libraries.
- Please visually match the mockups with pixel-perfect precision.
- Please do not consult or review your solution with others.

Features to Implement

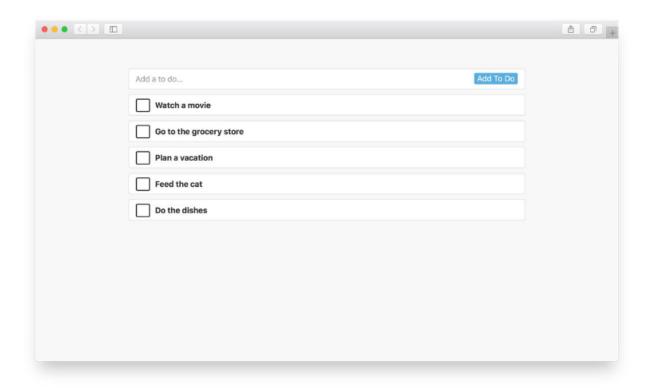
- 1. Populate the to-do list with data fetched from the server, using the & Get All Todos server endpoint.
- 2. Implement functionality to add a new to-do, which should also save it to the server using the & Add A New Todo endpoint.
- 3. Implement functionality to mark to-dos as completed or not completed, using the & Mark Completion Of A Todo endpoint.

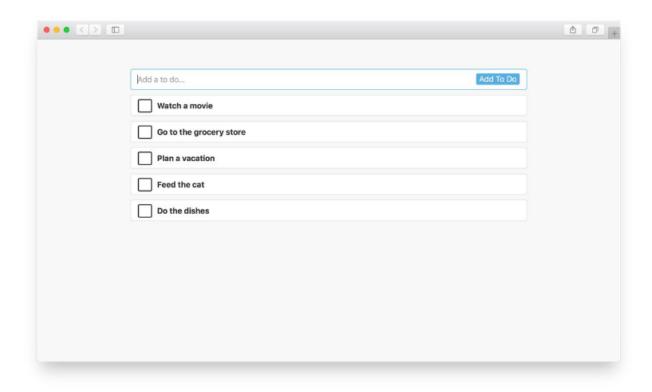
Submission Instructions

Once you're finished, please send us your code as well as instructions on how to run the app. You can send it as an email attachment, private GitHub link, or any other method you prefer. Feel free to also include details on any design decisions you made or other relevant notes.

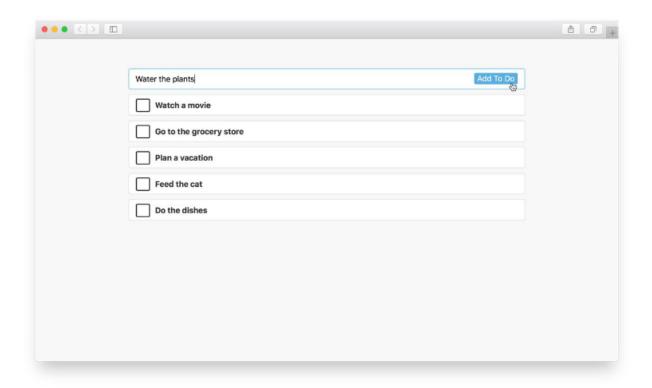
Mockups

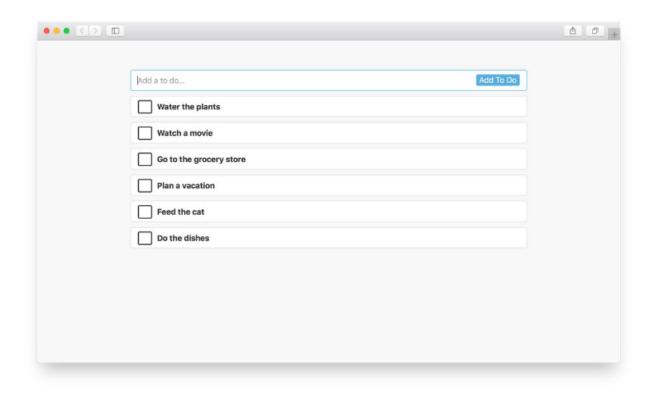
https://quip.com/G6D5AfGDevQl



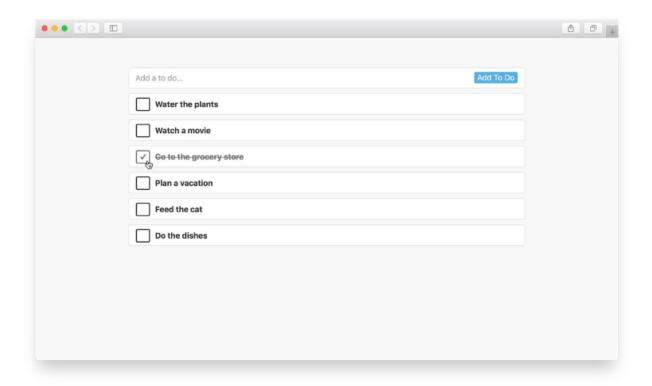


https://quip.com/G6D5AfGDevQl 2/5





https://quip.com/G6D5AfGDevQl 3/5



Server API Reference

Here is the documentation for the various endpoints on the server that your app will be communicating with. If you run into any issues with the server while working on the project, please email rajeev@quip.com.

GET ALL TODOS

 $This\ endpoint\ will\ return\ a\ JSON\ list\ of\ pre-populated\ todos, in\ addition\ to\ any\ todos\ you've\ added.$

 $\label{lem:GET} \begin{tabular}{ll} \tt GET & \tt http://quip-todos.herokuapp.com/get_todos?email=example@gmail.com \\ Response: \end{tabular}$

```
[
    id: 0,
        text: "Todo #1",
        completed: false
},
    id: 1,
        text: "Todo #2",
        completed: true
},
...
]
```

ADD A NEW TODO

This endpoint will create a new todo with the provided text and return a JSON object representing the newly created todo.

POST http://quip-todos.herokuapp.com/add_todo Body: email=example@gmail.com, text=Example Todo Content-Type: application/x-www-form-urlencoded Response:

```
id: 2,
  text: "Example Todo",
  completed: false
}
```

MARK COMPLETION OF A TODO

 $This endpoint \textit{ will change the 'completed' attribute of the todo \textit{ with the given id and return a JSON object representing the modified todo.} \\$

POST http://quip-todos.herokuapp.com/mark_completed Body: email=example@gmail.com, id=2, completed=true Content-Type: application/x-www-form-urlencoded Response:

```
id: 2,
  text: "Example Todo",
  completed: true
}
```

7/2/2018

RESET BACK TO THE INITIAL TODOS

This endpoint will reset your data back to the initial set of todos, before you added any new ones. You'll only need to use this if you want to clear out the todos you added while testing.

POST http://quip-todos.herokuapp.com/reset Body:email=example@gmail.com Content-Type:application/x-www-form-urlencoded Response:

"success"